

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/586,142
Source: IFWP
Date Processed by STIC: 07/26/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 07/26/2006

PATENT APPLICATION: US/10/586,142

TIME: 14:16:54

Input Set : A:\50026.060001.ST25.txt

Output Set: N:\CRF4\07262006\J586142.raw

3 <110> APPLICANT: Iida, Akihiro
 4 Ban, Hiroshi
 5 Inoue, Makoto
 6 Hirata, Takahiro
 7 Hasegawa, Mamoru
 9 <120> TITLE OF INVENTION: Methods for Producing Minus-Strand RNA Viral Vectors Using
 Hybrid
 10 Promoter Comprising Cytomegalovirus Enhancer and Chicken
 11 Beta-Actin Promoter
 13 <130> FILE REFERENCE: 50026/060001
 C--> 15 <140> CURRENT APPLICATION NUMBER: US/10/586,142
 C--> 15 <141> CURRENT FILING DATE: 2006-07-17
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP2005/000705
 16 <151> PRIOR FILING DATE: 2005-01-20
 18 <150> PRIOR APPLICATION NUMBER: JP 2004-014653
 19 <151> PRIOR FILING DATE: 2004-01-22
 21 <160> NUMBER OF SEQ ID NOS: 41
 23 <170> SOFTWARE: PatentIn version 3.3
 25 <210> SEQ ID NO: 1
 26 <211> LENGTH: 367
 27 <212> TYPE: DNA
 28 <213> ORGANISM: Cytomegalovirus
 30 <400> SEQUENCE: 1
 31 actagttatt aatagtaatc aattacgggg tcattagttc atagcccata tatggagtgc 60
 33 cgcgttacat aacttacggt aaatggcccg cctggctgac cgcccaacga ccccgccca 120
 35 ttgacgtcaa taatgacgta tgttcccata gtaacgccaa tagggacttt ccattgacgt 180
 37 caatgggtgg agtatattacg gtaaaactgcc cacttggcag tacatcaagt gtatcatatg 240
 39 ccaagtagcg cccctattga cgtaaatgac ggtaaatggc ccgcctggca ttatgcccg 300
 41 tacatgacct tatgggactt tcctacttgg cagtacatct acgtattagt catcgctatt 360
 43 accatgg 367
 46 <210> SEQ ID NO: 2
 47 <211> LENGTH: 1248
 48 <212> TYPE: DNA
 49 <213> ORGANISM: Gallus gallus
 51 <400> SEQUENCE: 2
 52 tcgaggtgag ccccaagttc tgettcactc tccccatctc cccccctcc ccacccccaa 60
 54 ttttgtatatt atttatattt taattatttt gtgcagcgat gggggcgggg gggggggggg 120
 56 ggcgcgcgcc aggcggggcg ggcggggcg aggggcgggg cggggcgagg cggagaggtg 180
 58 cggcggcagc caatcagagc ggcgcgctcc gaaagtctcc ttttatggcg aggcggcggc 240
 60 ggcggcgggc ctataaaaaa cgaagcgcgc ggcggggcggg gactcgctgc gacgtgcct 300
 62 tcgccccgtg ccccgctccg ccgcgcctc gcgcgcggcg ccccggtct gactgaccgc 360
 64 gttactccca caggtgagcg ggcgggacgg ccctctcct ccgggctgta attagcgctt 420
 66 gggttaaatga cggcttgttt cttttctgtg gctgcgtgaa agccttgagg ggctccggga 480
 68 gggccctttg tgcgggggga gcggctcggg ggggtgcgtgc gtgtgtgtgt gcgtggggag 540

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70 cgccgcgtgc ggctccgcgc tgcccggcgg ctgtgagcgc tgcgggcgcg gcgcggggct 600
72 ttgtgcgtc cgcagtgtgc gcgaggggag cgcggccggg ggcggtgcc cgcgggtgcg 660
74 ggggggctgc gaggggaaca aaggctgcgt gcgggggtgtg tgcgtggggg ggtgagcagg 720
76 ggggtgtgggc gcgtcggtcg ggctgcaacc cccctgcac cccctcccc gagttgctga 780
78 gcacggcccc gcttcgggtg cggggctccg tacggggcgt ggcgcggggc tcgcctgcc 840
80 gggcgggggg tggcggcagg tgggggtgcc gggcggggcg gggcgccctc gggcggggga 900
82 gggctcgggg gaggggcgcg gcggcccccg gagcgccggc ggctgtcgag gcgcggcgag 960
84 ccgcayccat tgccttttat ggtaatcgt cgagagggcg cagggacttc ctttgtccca 1020
86 aatctgtgcg gagccgaaat ctgggaggcg ccgcgcgacc cctctagcg ggcgcggggc 1080
88 gaagcggtgc ggcgcgggca ggaaggaaat gggcggggag ggccttcgt cgtcgcgcg 1140
90 ccgcgcgtcc cttctccctc tccagcctcg gggctgtccg cggggggacg gctgccttcg 1200
92 ggggggacgg ggcagggcg gggtcggctt ctggcgtgtg accggcgg 1248
95 <210> SEQ ID NO: 3
96 <211> LENGTH: 95
97 <212> TYPE: DNA
98 <213> ORGANISM: Oryctolagus cuniculus
100 <400> SEQUENCE: 3
101 cctctgctaa ccatgttcat gccttcttct ttttccctaca gctcctgggc aacgtgctgg 60
103 ttattgtgct gtctcatcat tttggcaaag aattc 95
106 <210> SEQ ID NO: 4
107 <211> LENGTH: 1744
108 <212> TYPE: DNA
109 <213> ORGANISM: Artificial
111 <220> FEATURE:
112 <223> OTHER INFORMATION: an example of CA promoter
114 <400> SEQUENCE: 4
115 actagttatt aatagtaatc aattacgggg tcattagttc atagcccata tatggagttc 60
117 cgcgttacat aacttacggt aaatggccc cctggttgac cgcccaacga ccccgccca 120
119 ttgacgtcaa taatgacgta tgttcccata gtaacgcaa tagggacttt ccattgacgt 180
121 caatgggtgg agtattttacg gtaaaactgcc cacttggcag tacatcaagt gtatcatatg 240
123 ccaagtacgc cccctattga cgtcaatgac ggtaaatggc ccgcctggca ttatgcccag 300
125 tacatgacct tatgggacct tccacttgg cagtacatct acgtattagt catcgctatt 360
127 accatggtcg aggtgagccc cacgttctgc ttactctcc ccatctcccc cccctcccca 420
129 cccccaatth tgtattttatt tattttttta ttattttgtg cagcgatggg ggcggggggg 480
131 gggggggggg gcgcgcaggg cggggcgggg cggggcgagg ggcggggcgg ggcgaggcgg 540
133 agaggtgcgg cggcgaccaa tcagagcggc gcgtccgaa agtttccctt tatggcgagg 600
135 cggcggcggc ggcggcccta taaaagcga agcgcgcggc gggcggggag tcgctgcgac 660
137 gctgccttcg ccccggtccc cgctccgccc ccgcctcgcg ccgcccggcc cggctctgac 720
139 tgaccgcgtt actccacag gtgagcgggc gggacggccc ttctcctccg ggctgtaatt 780
141 agcgccttgg ttaatgacgg cttgtttctt ttctgtggct gcgtgaaagc cttgaggggc 840
143 tccgggaggg ccctttgtgc ggggggagcg gctcgggggg tgcgtgcgtg tgtgtgtgcg 900
145 tgggggagcgc cgcgtgcggc tccgcgctgc ccggcggtcg tgagcgctgc gggcgcgggc 960
147 cggggctttg tgcgtccgc agtgtgcgcg aggggagcgc ggccgggggc ggtgccccgc 1020
149 ggtgcggggg gggctgcgag ggaacaaaag gctgcgtgcg ggggtgtgtc gtgggggggt 1080
151 gagcaggggg tgtgggcgcg tcggtcgggc tgcaaccccc cctgcacccc cctccccgag 1140
153 ttgctgagca cggcccggct tcgggtgcgg ggcctcgtag gggcggtggc gcggggctcg 1200
155 ccgtgccggg cgggggggtg cggcaggtgg ggggtgcggg cggggcgggg ccgcctcggg 1260
157 ccggggaggg ctcgggggag gggcgcgggc gccccggag ccggcgcggc tgcgaggcg 1320
159 cggcgagccg cagccattgc cttttatggt aatcgtgcga gagggcgagc ggacttcctt 1380

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161 tgtcccaaat ctgtgcggag ccgaaatctg ggaggcgccg ccgcaccccc tctagcgggc 1440
163 gcggggcgaa gcggtgcggc gccggcagga aggaaatggg cggggagggc cttcgtgcgt 1500
165 cgccgcgcgc ccgtcccctt ctcctctctc agcctcgggg ctgtccgcgc ggggacggct 1560
167 gccttcgggg gggacggggc agggcggggg tcggcttctg gcgtgtgacc ggcggctcta 1620
169 gagcctctgc taaccatggt catgccttct tcttttctct acagctcctg ggcaacgtgc 1680
171 tggttattgt gctgtctcat cattttggca aagaattcgg cttgatcgaa gcttgccac 1740
173 catg 1744
176 <210> SEQ ID NO: 5
177 <211> LENGTH: 24
178 <212> TYPE: RNA
179 <213> ORGANISM: Artificial
181 <220> FEATURE:
182 <223> OTHER INFORMATION: an example of a hammerhead ribozyme
185 <220> FEATURE:
186 <221> NAME/KEY: misc_feature
187 <222> LOCATION: (5)..(5)
188 <223> OTHER INFORMATION: g or a or u or c
190 <220> FEATURE:
191 <221> NAME/KEY: misc_feature
192 <222> LOCATION: (8)..(19)
193 <223> OTHER INFORMATION: g or a or u or c
195 <220> FEATURE:
196 <221> NAME/KEY: misc_feature
197 <222> LOCATION: (24)..(24)
198 <223> OTHER INFORMATION: g or a or u or c
200 <400> SEQUENCE: 5
W--> 201 cugangannn nnnnnnnnng aaan 24
204 <210> SEQ ID NO: 6
205 <211> LENGTH: 23
206 <212> TYPE: DNA
207 <213> ORGANISM: Bacteriophage T7
209 <400> SEQUENCE: 6
210 taatacgact cactataggg aga 23
213 <210> SEQ ID NO: 7
214 <211> LENGTH: 23
215 <212> TYPE: DNA
216 <213> ORGANISM: Bacteriophage T3
218 <400> SEQUENCE: 7
219 aattaaccct cactaaaggg aga 23
222 <210> SEQ ID NO: 8
223 <211> LENGTH: 23
224 <212> TYPE: DNA
225 <213> ORGANISM: Bacteriophage SP6
228 <220> FEATURE:
229 <221> NAME/KEY: misc_feature
230 <222> LOCATION: (22)..(22)
231 <223> OTHER INFORMATION: a or g or c or t
233 <400> SEQUENCE: 8
W--> 234 atttaggtga cactatagaa gng 23

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Input Set : A:\50026.060001.ST25.txt

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237 <210> SEQ ID NO: 9
238 <211> LENGTH: 34
239 <212> TYPE: DNA
240 <213> ORGANISM: Bacteriophage P1
242 <400> SEQUENCE: 9
243 ataacttcgt ataatgtatg ctatacgaag ttat 34
246 <210> SEQ ID NO: 10
247 <211> LENGTH: 34
248 <212> TYPE: DNA
249 <213> ORGANISM: Saccharomyces cerevisiae
251 <400> SEQUENCE: 10
252 gaagttccta ttctctagaa agtataggaa cttc 34
255 <210> SEQ ID NO: 11
256 <211> LENGTH: 10
257 <212> TYPE: RNA
258 <213> ORGANISM: Artificial
260 <220> FEATURE:
261 <223> OTHER INFORMATION: an example of Sendai virus S sequence (w= a or c; v=a or c
or g)
263 <400> SEQUENCE: 11
264 ucccwvuuwc 10
267 <210> SEQ ID NO: 12
268 <211> LENGTH: 10
269 <212> TYPE: RNA
270 <213> ORGANISM: Artificial
272 <220> FEATURE:
273 <223> OTHER INFORMATION: an example of Sendai virus S sequence
275 <400> SEQUENCE: 12
276 ucccaguuuc 10
279 <210> SEQ ID NO: 13
280 <211> LENGTH: 10
281 <212> TYPE: RNA
282 <213> ORGANISM: Artificial
284 <220> FEATURE:
285 <223> OTHER INFORMATION: an example of Sendai virus S sequence
287 <400> SEQUENCE: 13
288 ucccacuuac 10
291 <210> SEQ ID NO: 14
292 <211> LENGTH: 10
293 <212> TYPE: RNA
294 <213> ORGANISM: Artificial
296 <220> FEATURE:
297 <223> OTHER INFORMATION: an example of Sendai virus S sequence
299 <400> SEQUENCE: 14
300 ucccacuuuc 10
303 <210> SEQ ID NO: 15
304 <211> LENGTH: 10
305 <212> TYPE: DNA
306 <213> ORGANISM: Artificial
308 <220> FEATURE:

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309 <223> OTHER INFORMATION: an example of Sendai virus S sequence
311 <400> SEQUENCE: 15
312 aggggtcaaag 10
315 <210> SEQ ID NO: 16
316 <211> LENGTH: 10
317 <212> TYPE: DNA
318 <213> ORGANISM: Artificial
320 <220> FEATURE:
321 <223> OTHER INFORMATION: an example of Sendai virus S sequence
323 <400> SEQUENCE: 16
324 aggggtgaatg 10
327 <210> SEQ ID NO: 17
328 <211> LENGTH: 10
329 <212> TYPE: DNA
330 <213> ORGANISM: Artificial
332 <220> FEATURE:
333 <223> OTHER INFORMATION: an example of Sendai virus S sequence
335 <400> SEQUENCE: 17
336 aggggtgaaag 10
339 <210> SEQ ID NO: 18
340 <211> LENGTH: 9
341 <212> TYPE: RNA
342 <213> ORGANISM: Artificial
344 <220> FEATURE:
345 <223> OTHER INFORMATION: an example of Sendai virus E sequence
347 <400> SEQUENCE: 18
348 auucuuuuu 9
351 <210> SEQ ID NO: 19
352 <211> LENGTH: 9
353 <212> TYPE: DNA
354 <213> ORGANISM: Artificial
356 <220> FEATURE:
357 <223> OTHER INFORMATION: an example of Sendai virus E sequence
359 <400> SEQUENCE: 19
360 taagaaaaa 9
363 <210> SEQ ID NO: 20
364 <211> LENGTH: 10
365 <212> TYPE: DNA
366 <213> ORGANISM: Artificial
368 <220> FEATURE:
369 <223> OTHER INFORMATION: an example of Sendai virus S sequence
371 <400> SEQUENCE: 20
372 ctttcaccct 10
375 <210> SEQ ID NO: 21
376 <211> LENGTH: 15
377 <212> TYPE: DNA
378 <213> ORGANISM: Artificial
380 <220> FEATURE:
381 <223> OTHER INFORMATION: an example of Sendai virus E sequence

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. 5, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 24

Seq#:8; N Pos. 22

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:4, 5, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33

Seq#:34, 35, 36, 37, 38, 39, 40, 41

VERIFICATION SUMMARY

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L:15 M:270 C: Current Application Number differs, Replaced Current Application No

L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:201 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0